



# Iridium gen3 – The connected intelligent ‘plug & play’ road luminaire

## Iridium gen3 LED Mini

Iridium gen3 is the first truly intelligent luminaire designed for seamless connectivity. No hassle in commissioning – just install the luminaire and control it from a distance through CityTouch management software. Remote light management made easy! The new ‘plug & play’ concept has been designed to ensure safe and easy installation in just three steps: 1. Install the spigot, 2. Plug in the mains, 3. Tilt and close the luminaire. The luminaire’s high efficiency at system level ensures significant energy savings compared to existing conventional installations, offering a fast payback. Thanks to its wide choice of lumen packages, optics and colour temperatures, Iridium gen3 fits most applications in residential areas. The luminaire’s neo-classical design guarantees a consistent look and feel for your surroundings.

### Benefits

- Seamless connection from luminaire to CityTouch software without commissioning
- ‘Plug & play’ installation in just three steps
- High efficiency ensuring fast payback and low TCO

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## Features

- Auto-location and commissioning
- System efficacy of up to 124 lm/W
- Wide range of lumen packages between 1,000 and 4,000 lm
- Available in neutral white and warm white colour temperature
- Choice of three optics: Medium Street (MSO), Wide Street (WSO) and Wet Roads (DK)
- Separate spigot for safe and easy installation
- Optimised architecture for 4 kV surge (optional 10 kV), IP66 and IK09 protection
- Lifetime of up to 100,000 hours at L80B10

## Application

- Residential areas: residential streets, cycle paths & footpaths, roundabouts, pedestrian crossings, parking areas
- City centres: side streets, pedestrian crossings, cycle paths & footpaths, parking areas, roundabouts
- Area and Transportation: industrial areas, parking areas, petrol stations, airports, harbours, public transport areas, waterways
- Sports: parking areas

## Specifications

<b>Type</b>	BGP381
<b>Light source</b>	Integral LED-module
<b>Power</b>	9 to 36 W depending on LED configuration
<b>Luminous flux</b>	1020 to 4021 lm
<b>Luminaire efficacy</b>	100 to 126 lm/W
<b>Correlated Colour</b>	3,000 K (warm white)
<b>Temperature</b>	4,000 K (neutral white)
<b>Colour Rendering Index</b>	≥ 80 (warm white) ≥ 70 (neutral white)
<b>Lumen maintenance at median useful life* 100,000 h</b>	min L80
<b>Control gear failure rate at median useful life 100,000 h</b>	10%
<b>Performance Ambient Temperature Tq</b>	+25 °C
<b>Operating temperature range</b>	-30 to +35 °C
<b>Driver</b>	Built-in (self ballasted LED-module)
<b>Mains voltage</b>	220-240 V / 50-60 Hz
<b>Dimming</b>	Dimmable versions available
<b>Control system input</b>	1-10 V and DALI

<b>Options</b>	Dimming LumiStep 6, 8 hrs DynaDimmer Constant Light Output (CLO) SDU 1-10 V DALI RF regulation Mains dimming Nema socket Photocell: mini cell 35, 55, 75 Lux Fuse Cable: 3, 4, 5, 6 m Surge protection
<b>Optic</b>	Medium wide street optic (MSO), wide street optic (WSO), road wet optic (DK)
<b>Material</b>	Housing: high pressure die-cast aluminium Cover: polycarbonate, flat
<b>Colour</b>	Aluminium or grey Other RAL or AKZO colours available on request
<b>Connection</b>	Push-in connector with 3 poles
<b>Maintenance</b>	Possibility to open with screw to replace driver and LED module
<b>Installation</b>	Post top: 60 or 76 mm Side entry: 42 or 60 mm Recommended mounting height: 4 m Standard tilt angle post top: 0, 5 and 10° Adjustable tilt angle: 0, -5 and -10°

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## SR compatibility

For SR-based luminaires only SR-Certified components/sensors are to be used (see also: <http://www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting>).

Functional compatibility of 2 (SR-certified) components/sensors to be used in combination as well as to override the

possibility of any lineswitch function used in an SR-based luminaire, is to be released by the master component/sensor supplier. For the use of a NEMA 7-pin socket on an SR-based luminaire, a full-system verification is required. Not following this advice can/will cause risk of damage and non-compliance for which Signify cannot take any responsibility.

## Versions



Iridium gen3 Mini BGP381 road-lighting luminaire

## Product details



OPDP\_BGP381i\_0001-Detail photo



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## Application Conditions

Maximum dim level	Not applicable
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## Approval and Application

Mech. impact protection code	IK09
Surge Protection (Common/Differential)	4/4 kV

## Controls and Dimming

Dimmable	No
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## General Information

Luminaire light beam spread	152°
CE mark	CE mark
Parts colour	Cover painted
Coating	-
Light source colour	740 neutral white
Optical cover/lens type	PC
Driver included	Yes
Flammability mark	NO
Gear	EB
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	Yes
Number of gear units	1 unit
Number of light sources	1
Optic type	Medium wide street optic
Product Family Code	BGP381
UL mark	No

## Initial Performance (IEC Compliant)

Init. Corr. Colour Temperature	4000 K
Init. Colour Rendering Index	70

## Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0

## Mechanical and Housing

Colour	Grey
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## Operating and Electrical

Order Code	Full Product Name	Driver current
90803600	BGP381 GRN11/740 I MSO CO GR SP	300 mA
90807400	BGP381 GRN15/740 I MSO CO GR SP	440 mA
90819700	BGP381 GRN30/740 I MSO CO GR SP	440 mA
90823400	BGP381 GRN40/740 I MSO CO GR SP	610 mA
90824100	BGP381 GRN45/740 I MSO CO GR SP	690 mA

## General Information

Order Code	Full Product Name	Lamp family code
90803600	BGP381 GRN11/740 I MSO CO GR SP	GRN11
90807400	BGP381 GRN15/740 I MSO CO GR SP	GRN15
90819700	BGP381 GRN30/740 I MSO CO GR SP	GRN30

Order Code	Full Product Name	Lamp family code
90823400	BGP381 GRN40/740 I MSO CO GR SP	GRN40
90824100	BGP381 GRN45/740 I MSO CO GR SP	GRN45

## Initial Performance (IEC Compliant)

## Iridium gen3 LED Mini

Order Code	Full Product Name	Initial luminous flux
90803600	BGP381 GRN11/740 I MSO CO GR SP	1045 lm
90807400	BGP381 GRN15/740 I MSO CO GR SP	1425 lm
90819700	BGP381 GRN30/740 I MSO CO GR SP	2820 lm

Order Code	Full Product Name	Initial luminous flux
90823400	BGP381 GRN40/740 I MSO CO GR SP	3760 lm
90824100	BGP381 GRN45/740 I MSO CO GR SP	4230 lm

